Notice No.1

Rules and Regulations for the Classification of Ships, July 2019

The status of this Rule set is amended as shown and is now to be read in conjunction with this and prior Notices. Any corrigenda included in the Notice are effective immediately.

Please note that corrigenda amends to paragraphs, Tables and Figures are not shown in their entirety.

Issue date: November 2019

Amendments to	**Effective date**	**IACS/IMO implementation (if applicable)**
Part 1, Chapter 2, Section 2	1 January 2020	N/A
Part 1, Chapter 3, Sections 2 & 11	1 January 2020	N/A

Lloyd's Register

Part 1, Chapter 2
Classification Regulations

■ *Section 2*
Character of classification and class notations

2.1 Definitions

(Part only shown)

Table 2.2.2 Special features notations

Special features notation	Description	*See also*
Strengthened to carry cargoes which may liquefy (IMSBC Group A)	Assigned to ore carriers which are to carry 'Group A cargo' and which have satisfied the LR requirements for Classification as a specially constructed or fitted cargo ship for confining cargo shift, as stipulated in the IMSBC Code. In accordance with the IMSBC Code, vessels with this notation are eligible for the carriage of Group A cargo where the moisture content rises above the Transportable Moisture Limit (TML) after loading. This notation is assigned at the request of the Owner.	*Pt 4, Ch 11, 1.3 Class notation 1.3.4* ~~and *Pt 4, Ch 11, 1.3 Class notation 1.3.5*~~

2.5 Class notations (machinery special features)

2.5.8 The following notation associated with the equipment fitted for the abatement of combustion machinery NO_x emissions may be assigned as considered appropriate by the Classification Committee:

EGCN This notation will be assigned where the NO_x emissions abatement plant has been designed, constructed, arranged, installed and tested in accordance with LR's Rules and Regulations. Application of the **EGCN** notation does not infer that the installation will meet the statutory requirements for emissions regulation. This notation is to be supplemented by the following associated notation(s) (*see Pt 5, Ch 24, 1.2 Class notation and descriptive note 1.2.4* to *Pt 5, Ch 24, 1.2 Class notation and descriptive note 1.2.7* for more information):

(SCR) Selective catalytic reduction installed.
(EGR) Exhaust gas recirculation installed.

2.5.9 The following class notations are associated with hybrid electrical power systems and may be assigned as considered appropriate by the Classification Committee:

Hybrid Power Assigned to ships with an electrical power system utilising a combination of two or more different types of power source or utilising stored electrical energy to satisfy the ship's main power demand. The system and its component parts are in accordance with the existing applicable requirements of the Rules and the requirements of *Pt 6, Ch 2, 24 Hybrid electrical power systems*.

Hybrid Power (+) Assigned to ships meeting the requirements for **Hybrid Power** and the additional optional requirements for **Hybrid Power (+)** specified within *Pt 6, Ch 2, 24 Hybrid electrical power systems*. The additional optional requirements aim to provide for enhanced performance of the electrical power system achieved through the consideration of system simulation, system integration and the dependability of the electrical power system during normal or reasonably foreseeable abnormal operation.

2.8 Descriptive notes

(*Part only shown*)

2.8.2 **ShipRight()**. Where one or more of LR's ShipRight procedures for the following have been satisfactorily applied, then a descriptive note showing the associated characters of the procedure(s) within brackets will, at the Owner's request, be entered in column 6 of the *Register Book*, preceded by the word **ShipRight**, e.g. **ShipRight(IHM, SERS)**. The requirements pertaining to these descriptive notes and the ShipRight procedures are given *in Pt 3, Ch 16 ShipRight Procedures for the Design, Construction and Lifetime Care of Ships* and *Pt 5, Ch 21 Requirements for Condition Monitoring Systems and Machinery Condition-Based Maintenance Systems*, or directly within the relevant *ShipRight Procedure* document.

~~**AL-SAFE** This ShipRight descriptive note (Cyber-enabled Design) will be assigned where specific aspects of the ship have been designed and maintained in accordance with the requirements of the LR document *ShipRight Procedure – autonomous ships*.~~

~~**AL-MCM** This ShipRight descriptive note (Cyber-enabled Machinery Condition Monitoring) will be assigned where specific aspects of the ship are designed and maintained in accordance with the requirements of the LR document *ShipRight Procedure – autonomous ships* in addition to the requirements of the ShipRight descriptive note **MCM**.~~

~~**AL-MCBM** This ShipRight descriptive note (Cyber-enabled Machinery Condition-Based Maintenance) will be assigned where specific aspects of the ship are designed and maintained in accordance with the requirements of the LR document *ShipRight Procedure – autonomous ships* in addition to the requirements of the ShipRight descriptive note **MCBM**.~~

2.8.8 **EGCS-R()**. Assigned to ships with the extension of one or more of the following associated characters shown in brackets, detailing the aspects of design and construction that are prepared for installation of SO_x emissions abatement plant for combustion machinery in accordance with LR's Rules and Regulations in force on the date of 'contract for construction' (*see Pt 5, Ch 24, 1.2 Class notation and descriptive note 1.2.1* to *Pt 5, Ch 24, 1.2 Class notation and descriptive note 1.2.3* for more information):

A Preliminary assessment of the proposed SO_x emissions abatement ~~system~~ plant ~~carried out~~ including its arrangement on board has been completed satisfactorily;
S Enhanced structural reinforcement and structural modifications necessary for the function of the proposed SO_x emissions abatement plant have been fitted under survey;
T The relevant tank(s) needed for operation of the proposed SO_x emissions abatement ~~system~~ plant (e.g. chemical and/or residue storage tanks as applicable) have been installed under survey.

~~2.8.9 **Hybrid Power**. Assigned to ships with a hybrid power generation system comprising a combination of two or more different energy sources where all elements of the power generation, storage and transmission systems are designed, constructed, arranged, installed and tested in accordance with the applicable LR Rules and Regulations.~~

2.8.9 **EGCN-R()**. Assigned to ships with the extension of one or more of the following associated characters shown in brackets, detailing the aspects of design and construction that are prepared for installation of NO_x emissions abatement plant for combustion machinery in accordance with LR's Rules and Regulations in force on the date of 'contract for construction' (*see Pt 5, Ch 24, 1.2 Class notation and descriptive note 1.2.4* to *Pt 5, Ch 24, 1.2 Class notation and descriptive note 1.2.6* for more information):

A Preliminary assessment of the proposed NO_x emissions abatement plant including its arrangement on board has been completed satisfactorily;
S Enhanced structural reinforcement and structural modifications necessary for the function of the proposed NO_x emissions abatement plant have been fitted under survey;
T The relevant tank(s) needed for operation of the proposed NO_x emissions abatement plant (e.g. chemical tanks) have been installed under survey in accordance with approved design.

Part 1, Chapter 3
Periodical Survey Regulations

■ *Section 2*
Annual Surveys - Hull and machinery requirements

2.2 Annual Surveys

2.2.19 Where lithium battery system installations are used as a power source for essential or emergency systems, testing is to be conducted in accordance with the trials requirements in *Pt 6, Ch 2, 21 Testing and trials*, *Table 2.21.3 Test requirements on lithium battery systems*. Additionally the following aspects of the battery space are to be inspected, as applicable to the installation:
(a) structural fire protection;
(b) fixed fire detection;
(c) HVAC, ventilation, cooling, smoke extraction, fire damper systems;
(d) fixed and portable extinguishing; and
(e) escape and EEBD (emergency escape breathing device).

Existing paragraphs 2.2.19 to 2.2.46 have been renumbered 2.2.20 to 2.2.48.

2.2.48 Where a SO_x emissions abatement plant for combustion machinery (EGCS) is installed, the scrubber unit, supporting structure and associated systems are to be generally examined.
This is to include the examination and testing of alarms, controls and safeguards and where fitted:
- isolation, by-pass, back pressure and backflow prevention arrangements;
- gas detection and alarm system(s);
- ventilation arrangements of the space in which the EGCS is fitted; and
- personal protective equipment.

At the time of the Annual Survey, the operational and maintenance records are to be made available to the attending Surveyor to verify the satisfactory operation of the EGCS and associated safety devices/systems.

■ *Section 11*
Machinery surveys - General requirements

11.2 Complete Surveys

11.2.6 The valves, cocks and strainers of the bilge system, including bilge injection, are to be opened up as considered necessary by the Surveyor and, together with pipes, are to be examined and tested under working conditions. The fuel oil, feed, lubricating oil and cooling water systems, emissions abatement plant for combustion machinery where installed, as well as the Ballast Water Treatment System (BWTS) where installed, ballast connections and blanking arrangements to deep tanks which may carry liquid or dry cargoes, together with all pressure filters, heaters and coolers used for essential services, are to be opened up and examined or tested, as considered necessary by the Surveyor. All safety devices for the foregoing items are to be examined.

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